

Installation & Operation Manual

XX074-03

**MODEL V1411X-DVC, V1411J-DVC AND
V1410X-DVC VARIABLE-SPEED KEYPADS**



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Dear Valued Customer:

Thank you for selecting Vicon systems and products for your video needs.

Since Vicon's beginning in 1967, our only business has been the design, engineering, and production of the highest quality video systems and equipment for use in a wide variety of security, safety, control, surveillance, and communication applications.

We stand behind the quality and dependability of every product with an industry leading Beneficial Use warranty.

If you are not satisfied with a Vicon product or service, I would like to know. Your complete satisfaction is the mission of every Vicon employee.

Sincerely,

A handwritten signature in black ink, appearing to read "Kenneth M. Darby". The signature is fluid and cursive, with a large, stylized initial "K".

Kenneth M. Darby
President

FCC Notice

Note: Complies with Federal Communications Commission Rules & Regulations Part 15, Subpart B for a Class A digital device.

WARNING

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instruction, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class A computing device in accordance with the specification in subpart B of part 15 of the FCC rules, which are designed to provide reasonable protection against such interference in a commercial installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio and television reception, which can be determined by turning equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient the receiving antenna.
- Relocate the equipment with respect to the receiver.
- Relocate the equipment away from the receiver.
- Plug the equipment into a different electrical outlet so that the equipment and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions.

The user may find the following booklet prepared by the Federal Communications Commission helpful:

"Interference Handbook, Bulletin CIB-2"

This booklet is available from the U.S. Government Printing Office, Superintendent of Documents, Mailstop SSOP, Washington, D.C. 20402-9328, ISBN 0-16-045542-1.

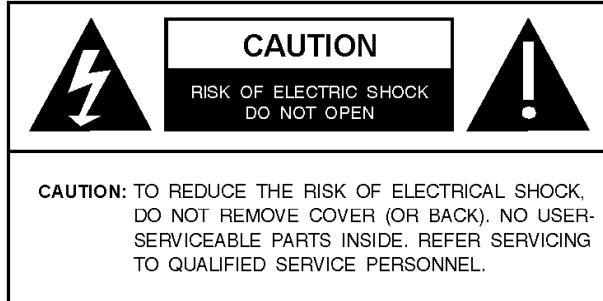
 **Warning:** *Power must be removed from this unit before removing circuit modules or ribbon cables.*

 **Caution:** *This unit contains circuit cards with integrated circuit devices that can be damaged by static discharge. Take all necessary precautions to prevent static discharge*

Important Safeguards

GRAPHIC SYMBOL EXPLANATION

The lightening bolt symbol alerts the user to the presence of dangerous voltage that may present the risk of electric shock.



The exclamation point symbol alerts the user to the presence of important operating and maintenance instructions.

- 1. Read Instructions** - Read all safety and operating instructions before the product is operated.
- 2. Retain Instructions** - Retain all safety and operating instructions for future reference.
- 3. Heed Warnings** - Pay attention to all product warnings.
- 4. Follow Instructions** - Follow all operating instructions.
- 5. Cleaning** -(Do not use caustic, abrasive or aerosol cleaners)

- a) For units that CAN BE DISCONNECTED from the power source, use a damp cloth for cleaning.
- b) For units that CANNOT BE DISCONNECTED from the power source, use a damp cloth for cleaning and do not allow moisture or liquids to enter vents.

6. Attachments - Use only UL Listed Vicor recommended attachments to prevent unit damage and personal injury.

7. Water and Moisture - Use only products designed for outdoor environments where they will be exposed to water or moisture.

8. Accessories - Do not place the unit on an unstable surface to avoid falling. Use only UL Listed Vicor recommended mounting accessories.

9. Ventilation - Do not block ventilating slots and openings as they ensure reliable operation. Do not place the unit near a heat source or into an enclosure unless recommended by Vicor.

10. Power Sources - The product should only be operated from the recommended power source. Use only a UL Class 2 indoor/dry or Class 3 outdoor/wet power supply.

11. Grounding - Only products equipped with a 3-prong grounded plug should be inserted into a grounded power outlet. Contact an electrician to replace an obsolete outlet. Do not force a plug into a non-grounded outlet.

12. Power Cord Protection - Power supply cords should not be routed in trafficked areas or in tight spaces where they will be pinched or used to bear weight. Allow some slack in the cord where it enters the unit.

13. Outdoor Cable Grounding - Use only grounded outdoor cables to protect against voltage surges and static charges. Section 810 of the National Electrical Code, ANSI/NFPA 70-1984, provides information on proper grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors and the requirements of grounding electrodes.

14. Lightning - Disconnect the product from its power source and cable system when possible to prevent damage due to lightning and power-line surges.

15. Power Lines - Do not locate outside cables over power or utility lines where they can fall and make direct contact. Contact with power lines can be fatal.

16. Overloading - Do not overload wall outlets and extension cords to prevent risk of fire and electric shock.

17. Object and Liquid Entry - Never probe through, or spill liquid into, enclosure openings to prevent risk of fire or electric shock.

18. Servicing - Refer all servicing to qualified service personnel.

19. Damage Requiring Service - Obtain service when:

- a) The power-supply cord or plug is damaged.
- b) Objects have fallen or liquid has been spilled into the product.
- c) The product is not designed for outdoor use and has been exposed to water or moisture.
- d) The product does not operate per the operating instructions. Perform Vicor recommended adjustments, modifications and troubleshooting only to avoid unit damage and personal injury.
- e) The product has been dropped.
- f) The product shows a significant change in performance.

20. Replacement Parts - Use only Vicor specified replacement parts or an approved equivalent to prevent unit damage and injury.

21. Safety Check - Request safety checks to be performed following repair or maintenance to verify proper operation.

22. ESD Precaution - Take all normal electrostatic discharge precautions to avoid component damage during installation and operation.

23. For 230 VAC Devices Only - When the disconnect device is not incorporated in the equipment or when the plug on the power supply is intended to serve as the disconnect device, follow the guidelines below:

- a) For permanently connected 230 VAC units, a readily accessible disconnect device must be incorporated into the site wiring.
- b) For 230 VAC units with a plug, the outlet must be installed near the unit and be easily accessible.

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Introduction

Note: Read all of the instructions completely before installing or operating this equipment.

The information in this manual covers installation, programming and operation for the V1411X-DVC Variable-Speed Keypad and two alternate configurations, the V1411J-DVC and V1410X-DVC. The installation procedures should only be performed by a qualified technician using approved materials in accordance with national, state and local wiring codes. The unit complies with FCC standards for a Class A device and with European Community EMC Directive 89/336/EEC and amendments 92/31/EEC. The product was subjected to the testing outlined in European Normalization Standard (Emissions) EN 55022, A1: 1995 and A2: 1997 Class B, (Harmonic Emissions) EN61000-3-2: 1995, A1: 1998 and A2: 1998, (Flicker) EN61000-3-3: 1995 and (Immunity) EN50130-4: 1995 and A1: 1998.

The keypad operates as a standalone controller for dome/receivers without the need for matrix switchers or in a multi-keypad installation using a Pilot/NOVA control system. The keypads can also be used with a Kollektor/ViconNet system.

The V1411X-DVC features:

- Variable-speed joystick
- Small physical footprint takes up less desktop space
- Easy to read LCD panel provides system status
- Large keypad buttons that are ergonomically designed for accurate key strokes
- Passcodes to limit access (10 users and 1 manager are permitted).



V1411X-DVC

The V1411J-DVC features:

- All of the features of the V1411X-DVC (except for a change in joystick design and function)
- Three-axis, variable-speed joystick adds zoom capability to joystick operation.



V1411J-DVC

The V1410X-DVC features:

- All of the features of the V1411X-DVC (same joystick function on 2-axis mini-joystick)
- Smaller physical footprint than the V1411X-DVC.



V1410X-DVC

Configuration & Installation

Warning: Do not connect this unit to a power source until all connections are complete.

In the installation figures that follow, the V1411X-DVC is shown. The figures are applicable to all three variations of the keypad (V1411X-DVC, V1411J-DVC and V1410X-DVC). The keypad is shipped with the following accessories:

- RJ-45 termination box and RJ-45 cable
- Power supply.

You will use these items as shown on the following pages, which describe the two system configurations available when using the keypad:

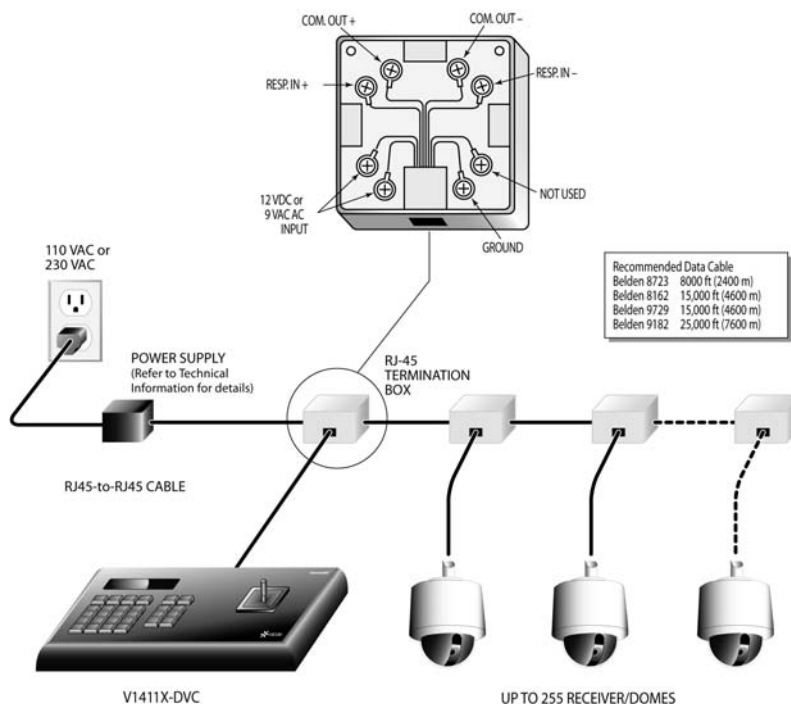
- Standalone (no control system, receivers/domes may be connected)
- NOVA (Pilot/NOVA or ViconNet control system or matrix switcher).

Power Requirements

A 12 VDC power supply is included for 120 VAC. For 230 VAC, a 9 VAC power supply is included. The two leads will be connected to the RJ-45 termination box. You may connect the two leads to either of the termination box screws shown in the figures to follow - polarity is not a factor for either the DC or the AC supply.

Standalone

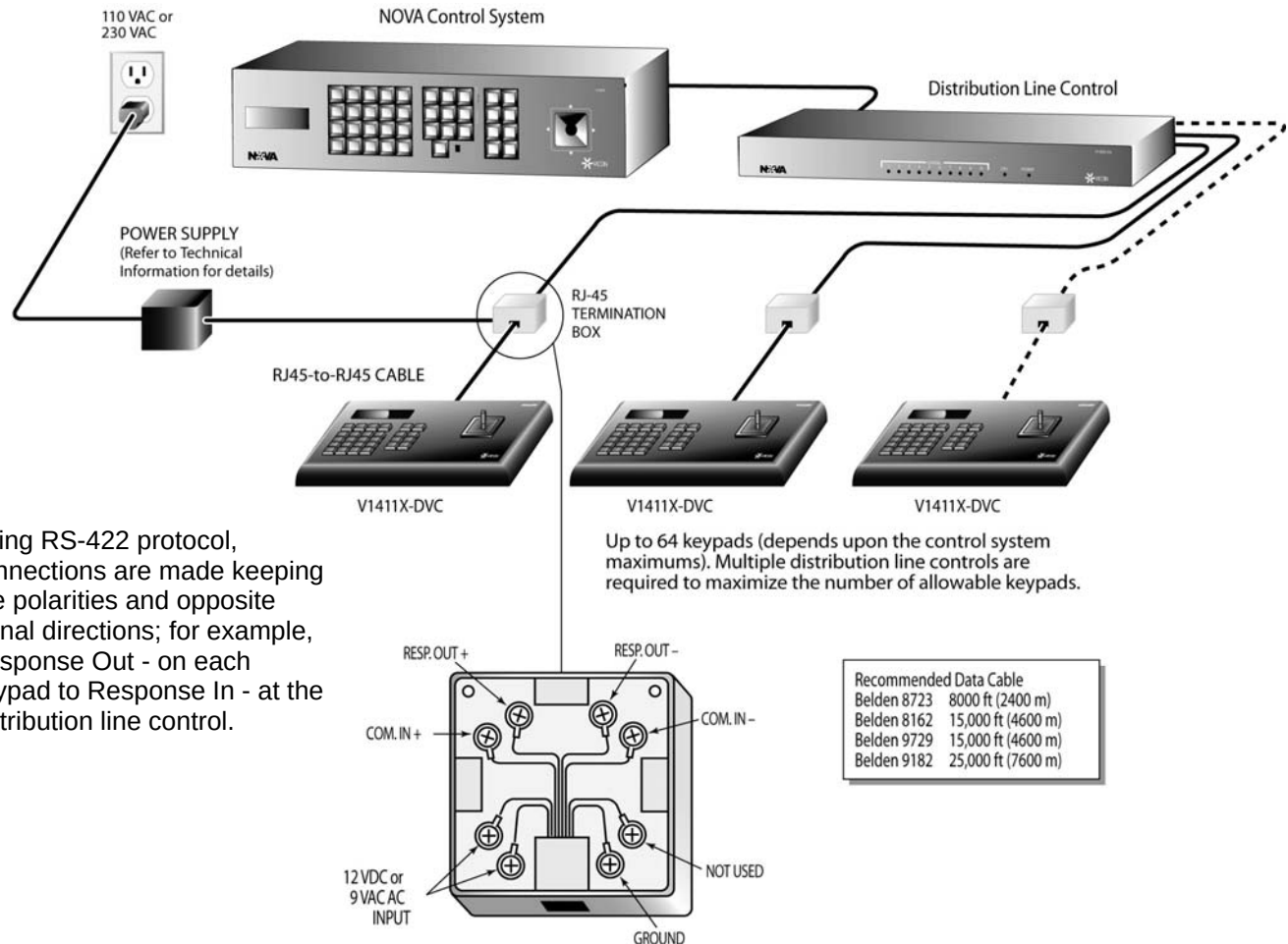
In a standalone system, there is no control system (CPU). You may connect receivers and domes directly to the keypad in this configuration. The 4-wire half-duplex RS-422 protocol for the keypad is driven in a multi-drop, tri-state manner that allows you to connect directly to SurveyorVFT domes, which use RS-485, without the need for a converter box.



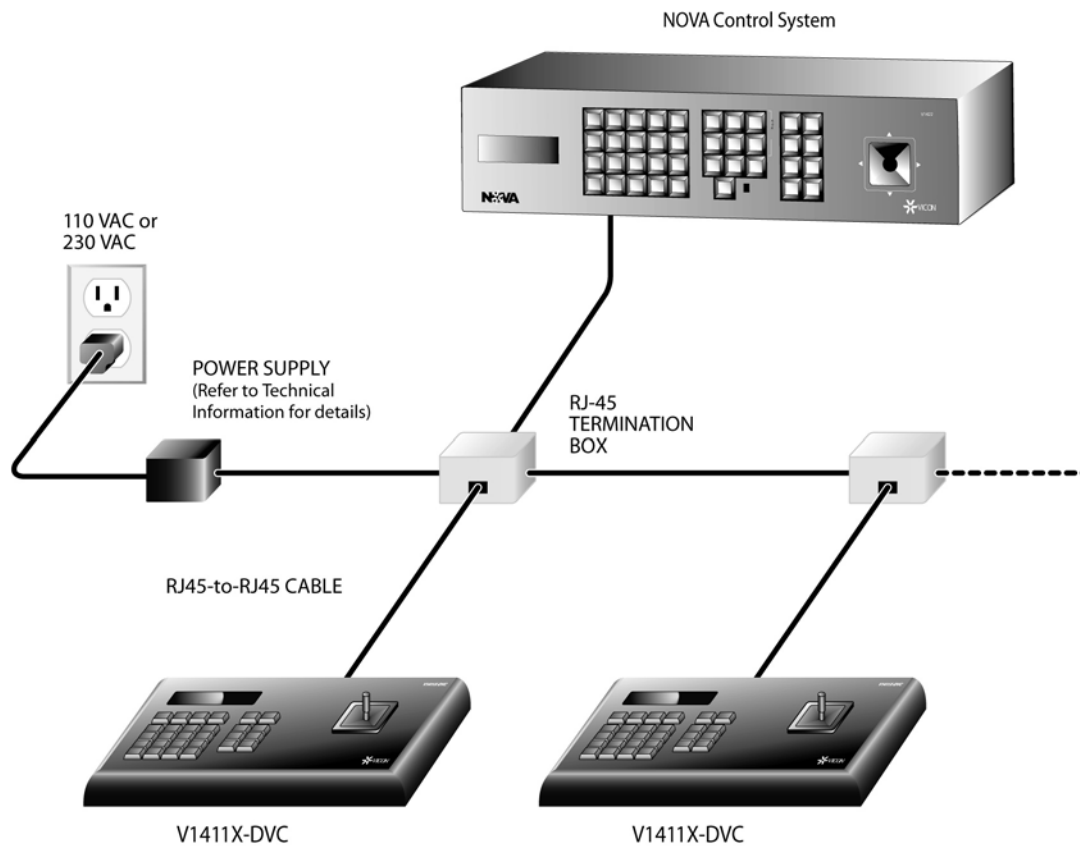
NOVA/Pilot

To use any of Vicon's Pilot/NOVA control systems with the keypad, you will use NOVA configuration. You may connect multiple keypads in this configuration, as shown in the example below.

The keypad is shipped with a 12 VDC power supply for 120 VAC units and a 9 VAC power supply for 230 VAC units. One power supply is required for each keypad in your system. Only the first keypad shows a power supply in the figure below. The two leads from the power supply will be connected to the RJ-45 termination box. You may connect the two leads to either of the termination box screws shown below - polarity is not a factor for either the DC or the AC supply.



You can also daisy chain keypads as shown below. Connect all like signals; for example, connect Command In + on the first keypad's RJ-45 box to Command In + on the second keypad's termination box and so forth.



ViconNet System

This section provides detailed connection methods for Kollektor and VN-NVR PTZ controller connection only.

The PTZ (joystick) portion of the keypad can be used to provide PTZ control of local and networked cameras in the system.

NOTE: *The other function buttons on the keypad are not supported by the driver of the Kollektor or VN-NVR unit.*

A keypad can be directly connected to a Kollektor Elite or VN-NVR unit. An RS-422 port or Serial (RS-232) to RS-422 converter is required for connection. See Figure for applications. A Kollektor Elite has an RS-422 port for direct connection. However, depending upon the particular back panel provided, it may be necessary to use the Vicon V422-CONV protocol converter.

NOTE: *The 1st generation Kollektor back panel does not support simultaneous use of a PTZ controller and PTZ camera dome unless an RS-232 to RS-422 converter is used. See Figure.*

NOTE: *A Kollektor Pro may support a PTZ controller under special circumstances. Check with Vicon Technical Support for compatibility.*

It is necessary to install a software driver to enable PTZ control. The minimum driver requirement is the Vicon VN-DRV, revision 910. All later revision drivers will also support PTZ control operation. The driver must be installed prior to hardware connection. Refer to Vicon manual XX113-56 or later for details on driver installation.

The keypads are connected to Kollektor and VN-NVR units using provided termination boxes. These boxes can be wired directly to the back panel RS-422 terminal block or via an RS-232 converter. These boxes also provide power to the keypad via the provided 12 VDC power supply. See Figure for applications.

The Vicon V422-CONV RS-422 to RS-232 converter can be used for applications requiring use of a serial (COM) port for PTZ control. The converter plugs directly into the SERIAL port (DB-9 connector) and its terminal block wired directly to the keypad's termination box. ViconNet is setup to use the keypad in Main Settings RS232/422/485 Controls. The COM port is configured in ViconNet Setup, selecting the available COM port for the PC **and** the "Internal Comport", which is joystick's (keypad) address programmed in the keypad. The internal comport must not conflict with any camera addresses. Baud rate is usually 9600 baud.

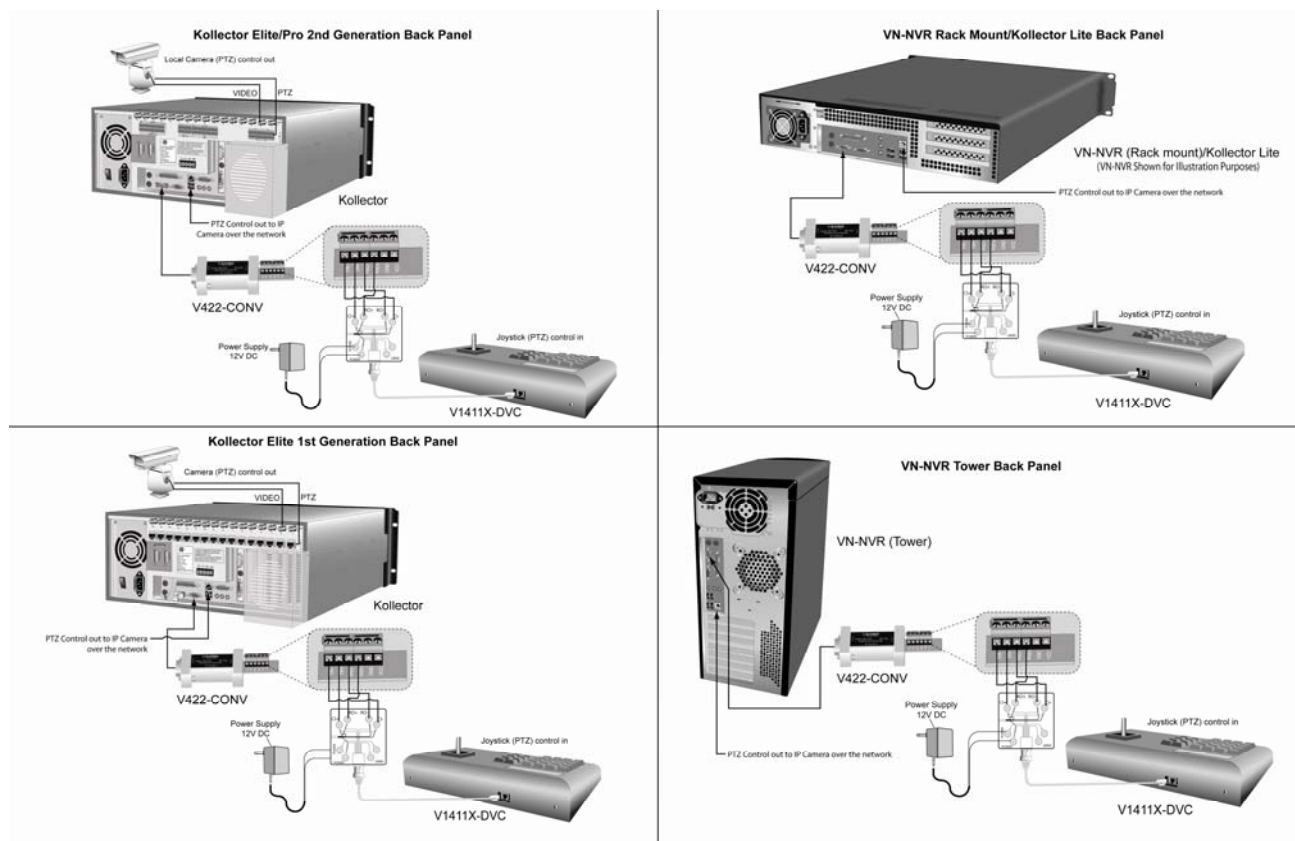
Pre-Installation

Before connecting any PTZ controller, verify the following points:

- Review the corresponding installation manuals listed in this guide.
- Confirm that all necessary hardware is present (cable, converters, keypad, etc.).
- Confirm that the Kollektor or VN-NVR unit is ready for installation and that the software driver is accessible for installation.
- Check the location of the keypad and verify that there is sufficient space to conveniently operate the joystick while viewing video.
- Check that the installation hardware can be connected to a UPS with the other hardware in the event of a power outage or surge.

Installation Guideline

1. With the Kollector or VN-NVR unit ready for PTZ controller installation, locate and install the keypad in its permanent position, whether rack- or desk-mounted.
2. Locate and install the V422-CONV converter into the back panel.
3. Make all cable connections between keypad and back panel as shown in the Figure. If using the converter, verify that the correct polarity is maintained on the terminal block connections.
4. With power applied to all items, setup Kollector or VN-NVR with the necessary PTZ software drivers and test the PTZ capability of a local and remote camera dome.
5. Installation is complete.



Typical Installation Configurations

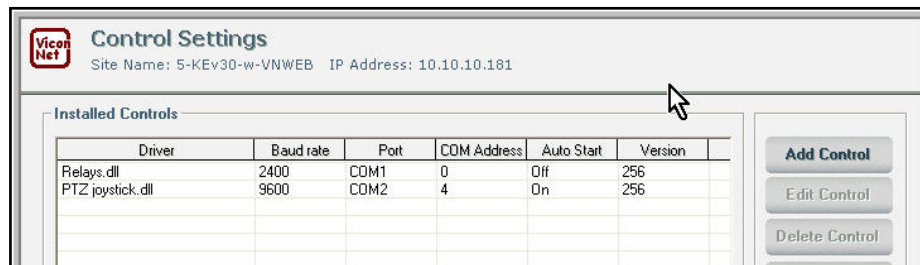
ViconNet Setup

- The **Baud Rate** and **COM Address** (9600 and 4 in screen example below) in ViconNet and the keypad should match.

NOTE: COM address can be any address 1-64. When setting address, make sure it does not conflict with a camera PTZ address.

- For the 2nd generation KE back panels: Under **Port** COM 1 must be selected.
- For the 1st generation KE back panels: Under **Port** COM 2 must be selected.
- For the VN-NVR back panel: Under **Port** COM 1 must be selected.

Note: The V422-CONV RS-422 to RS-232 converter must be used and plugs into the open COM port on rear of the Kollektor as illustrated in the installation figure.



Sample ViconNet Setup Screen

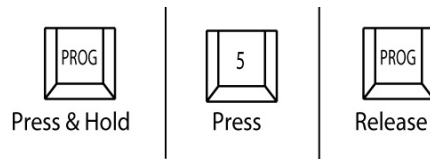
Passcode Setup

You may use passcodes to limit use of the keypad. Eleven passcodes are permitted, one for a manager and ten users. The manager has access to all functions and setup parameters, including passcode setup. Only the manager may setup the keypad using mode 4, which is discussed in the next chapter.

Note: From the factory, passcodes are disabled and the keypad can be immediately accessed. The manager passcode must be set up in order to have user passcodes. The manager passcode is always passcode 1. Passcodes are defined to be 4 digits from the factory, but the manager can change this as discussed in the Keypad Setup chapter. Do not begin a passcode with "0".

To set up passcodes:

1. To enter Passcode Mode, perform the following keystrokes:



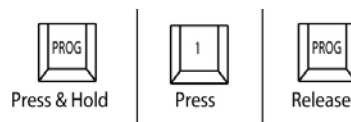
2. The LCD will display: **Edit Passcode 1**
New Passcode ----

3. Passcode 1 is always the manager passcode. Enter the manager passcode and press . If the keypad sounder is enabled, as discussed in the next chapter, the keypad will beep twice when a new passcode is entered.

4. The LCD will display: **Edit Passcode 2**
New Passcode ----

5. Passcodes 2 – 11 are for users. Enter the 4-digit passcode for the first user, press  to save the passcode and continue to set up passcodes if needed. Note that you do not have to use contiguous user numbers; for example, you can skip passcode number 3 and continue setting up with passcode 4. To skip a passcode during setup, or scroll through passcodes, use the A/I key.

6. To exit the Passcode Setup mode, perform the following keystrokes:



To edit passcodes, a manager must enter the passcode system and perform the steps above to change or view the passcodes. Note that a user may edit his/her own passcode. To delete all passcodes, enter a master passcode of all zeroes. To delete a user passcode only, enter all zeroes for that user passcode. To recover a lost manager passcode (and retain the programmed user passcodes), contact Vicon Technical Support at 1-800-34-VICON (1-800-348-4266, U.S.) or +44 (0) 1489 566330 (U.K.).

To log on to the keypad:

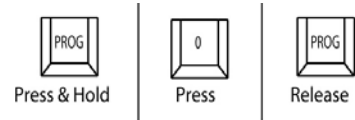
If passcodes have been entered into the system as defined above, you must enter a valid passcode to use the keypad. After the initial startup screen, the keypad will display:

Vicon V1411X-DVC
Passcode? ----

Enter a 4-digit passcode as defined above. Mode 4, Keypad Setup, may only be accessed by the manager.

*Note: If an alarm occurs when there is no user logged on to a passcoded keypad, the passcode line of the display shown above will alternate between **Passcode? ----** and **Alarm**. Enter a valid passcode and acknowledge the alarm as discussed on page **Error! Bookmark not defined.***

To manually log off of the keypad, perform the following keystrokes



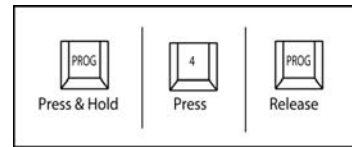
To automatically log off of the system, set a log off time as discussed in the next chapter. You must be a manager to set the auto log off time. Use a time of zero seconds to disable this function.

To change the number of digits that will define the passcode length, refer to the Keypad Setup chapter. Changing the passcode length clears all passcodes and disables the passcode mechanism.

Keypad Setup

Note: (For NOVA mode only.) Before powering your control system, perform the keypad setup described in this chapter. Make sure to define the keypad baud rate (all keypads in your CCTV system must have the same baud rate) and keypad address (each keypad must have a unique address). After you have set up the keypad completely, power your control system and refer to its documentation to set the Keypad State to Auto in the control system programming menus.

To enter Keypad Setup mode, perform the following keystrokes:



Then use the following methods to navigate through and choose a parameter:



Tilt up/down to display choices.

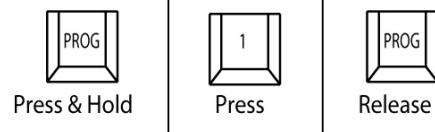


A/P to save your choice and move to the next parameter.



A/I to move to the next parameter without saving.

To exit Keypad Setup mode, perform the following keystrokes:



Use the table on the next page to define the keypad settings.

Note: When you press A/P to store the contrast as listed in the following table, the joystick center position will also be stored. Make sure that the joystick is at its center position before pressing A/P. Storing the contrast also initializes the V1411J-DVC joystick's zoom function. You must perform the contrast store procedure before you can zoom in or out with the V1411J-DVC joystick, although zoom keys may be used without performing this procedure.

Setup Parameter	Description	Choices
Display Contrast	Sets the LCD contrast.	(view the LCD window)
Address	Sets the address for this keypad.	-- (for Standalone mode) 1-64 (for NOVA mode)
Baud Rate	Sets the communication baud rate. All keypads in your Pilot/NOVA/ViconNet system must have the same baud rate!	1200, 2400, 4800, 9600 baud, 19.2 kBaud
Comms Timeout	Determines the communications timeout in milliseconds for single keypad operation only.	0 – 99 (default = 15)
Keypad Sounder	Turns sound ON or OFF. <i>Beeps once for:</i> - illegal key sequence - key sequence not completed in 10 seconds - number out of range for NOVA mode - passcode already used - restoring factory defaults (slight delay before beep). <i>Beeps twice for:</i> - storing presets (operating mode 2) - saving a choice during setup (modes 4 and 5). <i>Beeps four times when:</i> - one or more alarms activate. <i>Beeps every 15 seconds when:</i> - there are unacknowledged alarms in the system.	On, Off
Key Click	Audible indicator for key presses.	On, Off
Preset 1 On Alarm	Recalls preset 1 (home) on the receiver in an alarm state (Standalone mode only).	On, Off
Alarm Slf Clr (Alarm Self Clear)	Automatically clears an alarm if it spontaneously disappears. If this is OFF, you must press Alarm just as you would with active alarms.	On, Off
Pace Factor	This applies to NOVA mode at 19.2 kbaud only. Do not change this setting unless directed to do so.	0 – 20
Additional Stops	Causes additional stop messages to be sent from the joystick or lens keys when this key is released. Use 1 or 2 for receivers/domes using simplex.	0 - 6
Auto Log Off	Defines the length of time during which there is no keyboard activity before the keypad logs off.	-- (disabled), 1 – 60 min.
Passcode Length	Sets the passcode length to 2, 4 or 6 digits. Changing the length clears all passcodes and disables the passcode mechanism.	2, 4, 6 digits.
PTZ Disable	PTZ functionality disabled when set to On.	On, Off (default)
Alarm Disable	Disables or enables the alarm (standalone mode only).	On, Off (default)
Set Defaults	Press A/P to restore factory defaults and disable the passcode system. This does not clear Display Contrast settings. Factory defaults are: Address = 1, Baud Rate = 9600, Comms Timeout = 15 milliseconds, Sounder = On, Key Click = On, Preset 1 on Alarm = On, Alarm Self Clear = On, Pace Factor = 2, Additional Stops = 1, Auto Log Off = disabled, Passcode Length = 4, PTZ Disable = Off, Alarm Disable = Off.	Not applicable.

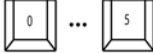
Operation

Operating Modes

If passcodes are not active, mode 1 is automatically entered after power is applied or if the keypad is reset. If passcodes are active, the passcode entry screen will display upon applied power or if the keypad is reset. Refer to Indicators in Display in the Technical Information chapter for LCD status messages.

Accessing Operating Modes

 Press & Hold

 Press the appropriate number key.

Mode	Description
1	Normal operating mode.
2	Preset Store mode.
3	Set Dwell mode.
4	Setup mode.
5	Passcode Setup mode.

 Release

Alarms

Note: The procedure to clear all alarms is applicable for V1500 systems only.

Acknowledging Alarms

Note: If the currently-selected monitor is not defined as an alarm monitor, press ALARM before performing the procedure below in order to select the lowest numbered alarm monitor. Monitors are defined as alarm monitors as discussed in the programming manual for your control system.



For control systems with an independent stack mode, press ALARM again after all alarms are cleared from the currently-selected alarm monitor. This will select the next alarm monitor if it has active alarms. Continue with the alarm acknowledgment procedure to clear alarms.

If ALARM flashes in the display window, press ALARM to view the alarm video. (If alarms are sequencing, the first press of the ALARM key will stop the sequencing.)

Press ALARM to clear the alarm.

If ALARM continues to flash in the display window, press ALARM until all alarms are cleared.

To Clear All Alarms



Press & Hold



Press

Viewing Alarm Video



OR



To view but not acknowledge alarms, press CANCEL or SEQ to step through active alarms.

SEQ will step you through the alarms from the first active alarm to the last active alarm.

CANCEL will step you through the alarms from the first active alarm to the last active alarm.

Auxiliary Function Control

Controlling Auxiliary Functions

Which auxiliary functions are momentary and which are latching depends upon your receiver. Refer to your receiver documentation if necessary.



Press



Enter aux number

Momentary functions stay active as long as the number key is pressed.

To activate latching auxiliary functions, press the AUX key and release.

Communication Failure

Note: The procedure to clear all failure announcements is applicable for V1500 systems only.

If the com fail is on a camera that is NOT currently selected, COMFL and a block caret will flash.	 Press	This selects the camera having the com fail.	 Press	This acknowledges the failure.	If the com fail is on a camera that IS currently selected, COMFL flashes.	 Press	This acknowledges the failure.	To clear all com fails:	 Press & Hold	 Press
---	--	---	--	---------------------------------------	--	--	---------------------------------------	--------------------------------	---	--

Crosspoint Reset

Note: To do a crosspoint reset, enter Dwell Mode (mode 3) and set 9999 or 9900 followed by A/P. Refer to Accessing Operating Modes on previous page for how to enter Dwell Mode.

Full System Reset For any control system:      Press Press	Single Cage Reset For V1400 control system:      Press Press
---	--

Lens Operation

Initializing the Joystick Zoom Functionality (V1411J-DVC Only)

 Press & Hold	 Press	 Release	The LCD will display "Display Contrast"	 View the LCD and use the joystick to set the contrast.	Make sure your joystick is at the center position and press	 Press	Your joystick zoom feature is now initialized.
---	--	--	--	--	--	--	---

Controlling the Lens

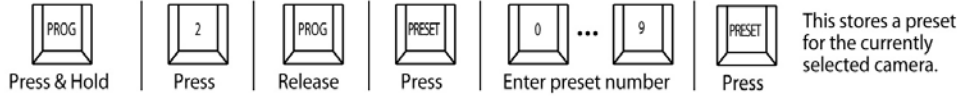
  Zoom	OR	V1411J-DVC Only: Twist clockwise for Zoom In. Twist counterclockwise for Zoom Out.	 View the LCD and use the joystick to set the contrast.	  Focus	  Iris	 Lens Speed	Toggle key to switch between speeds.
 Auto Iris	Toggle key to automatically adjust to ambient lighting conditions or deactivate.	Note that autoiris operation has priority over manual iris control. To avoid excessive wear of the iris mechanism, do not use the autoiris when you are autopanning.					

Presets

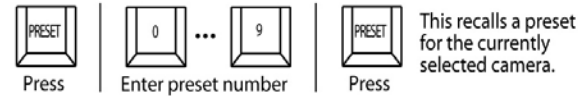
Preset recall allows you to return to a pre-defined pan-and-tilt position (and zoom/focus settings, if the camera includes a motorized zoom lens). The pan-and-tilt drive and lens must have preset potentiometers in order to use preset functions. Presets must be stored (programmed) before they can be recalled.

Note: Adjust pan-and-tilt device and lens to desired settings before programming each preset.

Programming Presets

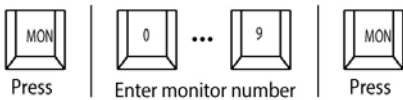


Recalling Presets

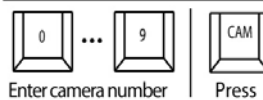


Manual Switching

Selecting a Monitor



Selecting a Camera



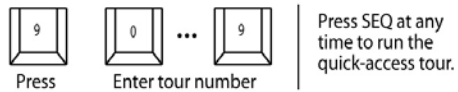
Clearing Input Errors



Salvos and Tours

Note: Salvos and tours are not available in all control systems. Refer to your control system documentation if necessary.

Loading and Starting a Quick-Access Tour



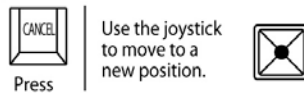
Starting a Tour



Running a Salvo



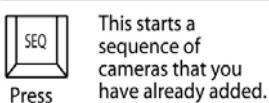
Cancelling a Running Tour or Salvo



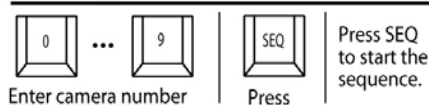
Sequential Switching

Note: Sequential switching is not available in all control systems. Refer to your control system documentation if necessary.

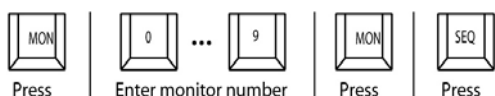
Starting a Sequence



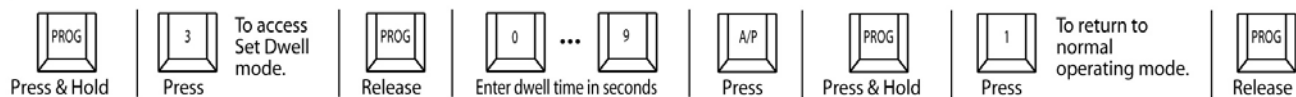
Adding Cameras



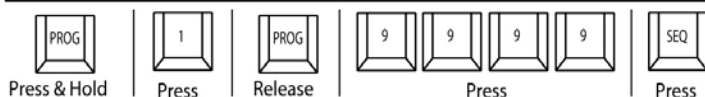
Viewing Monitors in a Sequence



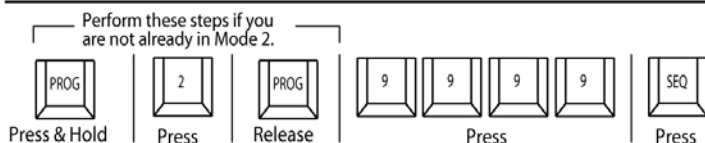
Setting the Dwell Time



Adding All Cameras



Deleting All Cameras



Using the Joystick

Zooming with the Joystick



V1411J-DVC Only:
Twist clockwise for Zoom In.
Twist counterclockwise for Zoom Out.

Panning and Tilting



Use the joystick.
Deflect the joystick farther in the desired direction to increase speed.

Autopanning

Note: Manual pan operations have priority over the autopan function. Panning during autopanning will deactivate autopanning.



Toggle the A/P button to start or stop autopanning.

Setting Autopan Speed Control

Note: This procedure is for Surveyor series domes only using 1300 speed control type.

Deflect the joystick to the desired position. This position determines the speed (the farther away from center, the faster the speed).



Press & Hold



Release



then... Release

Note: For receivers other than the Surveyor series domes, use the procedure below to set the autopan speed.

During autopanning, press A/P up to four times to step through available speeds.



To stop autopanning, press the A/P key a fifth time.



OR Use the joystick to manually pan or tilt.



Changing the Joystick Speed



Press

Press to toggle between the maximum joystick speed and 1/4th of the maximum speed. This allows you to easily track a slow moving object.

Technical Information

PrePac Model Descriptions

Model Number	Product Code	Input Voltage	Power Supply
V1411X-DVC	7518	120 VAC	12 VDC at 500 mA.
V1411X-DVC-230	7518-01	230 VAC	9 VAC at 600 mA.
V1411J-DVC	7832	120 VAC	12 VDC at 500 mA.
V1411J-DVC-230	7832-01	230 VAC	9 VAC at 600 mA.
V1410X-DVC	7847	120 VAC	12 VDC at 500 mA.
V1410X-DVC-230	7847-01	230 VAC	9 VAC at 600 mA.

Electrical

Input Voltage:	See <i>PrePac Model Descriptions</i> above. Note that you may also use a 9.5 VAC power supply at 600 mA with 120 VAC units (not included).
Fuse:	Internal, self-resetting on power down.
Communications:	RS-422, 4-wire half duplex.
Cabling:	RJ-45 socket on rear of keypad connected via 2 m RJ-45 cable to a breakout box. In NOVA configuration, the connection from the breakout box to the matrix CPU must be dual twisted pair, individually shielded cable such as Belden 8723. In Standalone configuration, the cable requirements are the same although simplex communications (a single twisted shielded pair) can be employed.

Controls

Numerical Keypad:	Camera/monitor selection, dwell time input, mode selection, etc.												
Camera Key:	Assigns selected camera to selected monitor.												
Monitor Key:	For monitor selection enabling.												
Cancel Key:	Used to clear data entries.												
Sequencing Key:	Starts camera sequencing.												
Programming Key:	Used to change operating mode.												
Preset Key:	Recalls or stores preset position, depending on operating mode.												
Zoom Keys:	Manually zooms camera view in or out.												
Focus Keys:	Manually focuses camera view near or far. Momentary switch.												
Iris Keys:	Manually opens or closes camera's iris. Momentary switch.												
Alarm Key:	Acknowledges alarms.												
Auxiliary Key:	Used to control auxiliary equipment.												
Autoiris Key:	Toggles automatic iris operation.												
Autopan Key:	Toggles automatic panning operation.												
Lens Speed Key:	Changes lens speed. Dependent upon receiver.												
Joystick:	V1411X-DVC and V1410X-DVC: Causes pan-and-tilt mechanism to pan and tilt at varying speed. V1411J-DVC: Causes pan-and-tilt mechanism to pan and tilt at varying speed. Used to zoom in/out at a selected fixed speed.												
P/T Speed Key:	Reduces maximum pan-and-tilt speed by a factor of 4.												
Display:	Backlit LCD displays 2 lines of 20 characters.												
Indicators in Display:	<table> <tr> <td>AI</td><td>DWELL</td></tr> <tr> <td>ALARM</td><td>MON ####</td></tr> <tr> <td>AP</td><td>P (preset store mode)</td></tr> <tr> <td>AUX 1 2 3 4</td><td>PP ##</td></tr> <tr> <td>CAM #####</td><td>SNGL (standalone)</td></tr> <tr> <td>COMFL (communication failure)</td><td>1300 (NOVA)</td></tr> </table>	AI	DWELL	ALARM	MON ####	AP	P (preset store mode)	AUX 1 2 3 4	PP ##	CAM #####	SNGL (standalone)	COMFL (communication failure)	1300 (NOVA)
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AUX 1 2 3 4	PP ##												
CAM #####	SNGL (standalone)												
COMFL (communication failure)	1300 (NOVA)												

Mechanical

V1411X-DVC and V1411X-DVC-230:

Construction: Zinc plated steel.
Finish: Black "walnut".
Dimensions: Height: 2.25 in. (57 mm).
Width: 11.5 in. (292 mm).
Depth: 6.9 in. (175 mm).
Weight: 3.0 lb (1.4 kg).

V1411J-DVC and V1411J-DVC-230:

Construction: Zinc plated steel.
Finish: Black "walnut".
Dimensions: Height: 3.0 in. (75 mm).
Width: 11.5 in. (292 mm).
Depth: 6.9 in. (175 mm).
Weight: 3.0 lb (1.4 kg).

Shipping Instructions

Use the following procedure when returning a unit to the factory:

1. Call or write Vicon for a Return Authorization (R.A.) at one of the locations listed below. Record the name of the Vicon employee who issued the R.A.

Vicon Industries Inc.
89 Arkay Drive
Hauppauge, NY 11788
Phone: 631-952-CCTV (2288); Toll-Free: 1-800-645-9116; Fax: 631-951-CCTV (2288)

For service or returns from countries in Europe, contact:

Vicon Industries Ltd
Brunel Way
Fareham, PO15 5TX
United Kingdom
Phone: +44 (0) 1489 566300; Fax: +44 (0) 1489 566322

2. Attach a sheet of paper to the unit with the following information:
 - a. Name and address of the company returning the unit
 - b. Name of the Vicon employee who issued the R.A.
 - c. R. A. number
 - d. Brief description of the installation
 - e. Complete description of the problem and circumstances under which it occurs
 - f. Unit's original date of purchase, if still under warranty
3. Pack the unit carefully. Use the original shipping carton or its equivalent for maximum protection.
4. Mark the R.A. number on the outside of the carton on the shipping label.

Vicon Standard Equipment Warranty

Vicon Industries Inc. (the "Company") warrants your equipment to be free from defects in material and workmanship under Normal Use from the date of original retail purchase for a period of three years, with the following exceptions:

1. VCRs, all models: Labor and video heads warranted for 120 days from date of original retail purchase. All other parts warranted for one year from date of original retail purchase.
2. Video monitor CRT (cathode ray tube) and LCD monitors, all models: One year from date of original retail purchase.
3. Uninterruptible Power Supplies: Two years from date of original retail purchase.
4. VDR-304 and VDR-308 Recorder Series: One year from date of original retail purchase.
5. Normal Use excludes prolonged use of lens and pan-and-tilt motors, gear heads, and gears due to continuous use of "autopan" or "tour" modes of operation. Such continuous operation is outside the scope of this warranty.

Date of retail purchase is the date original end-user takes possession of the equipment, or, at the sole discretion of the Company, the date the equipment first becomes operational by the original end-user.

The sole remedy under this Warranty is that defective equipment be repaired or (at the Company's option) replaced, at Company repair centers, provided the equipment has been authorized for return by the Company, and the return shipment is prepaid in accordance with policy.

The Company will not be obligated to repair or replace equipment showing abuse or damage, or to parts which in the judgment of the Company are not defective, or any equipment which may have been tampered with, altered, misused, or been subject to unauthorized repair.

Software supplied either separately or in hardware is furnished on an "As Is" basis. Vicon does not warrant that such software shall be error (bug) free. Software support via telephone, if provided at no cost, may be discontinued at any time without notice at Vicon's sole discretion. Vicon reserves the right to make changes to its software in any of its products at any time and without notice.

This Warranty is in lieu of all other conditions and warranties express or implied as to the Goods, including any warranty of merchantability or fitness and the remedy specified in this Warranty is in lieu of all other remedies available to the Purchaser.

No one is authorized to assume any liability on behalf of the Company, or impose any obligations on it in connection with the sale of any Goods, other than that which is specified above. In no event will the Company be liable for indirect, special, incidental, consequential, or other damages, whether arising from interrupted equipment operation, loss of data, replacement of equipment or software, costs or repairs undertaken by the Purchaser, or other causes.

This warranty applies to all sales made by the Company or its dealers and shall be governed by the laws of New York State without regard to its conflict of laws principles. This Warranty shall be enforceable against the Company only in the courts located in the State of New York.

The form of this Warranty is effective August 15, 2007.

THE TERMS OF THIS WARRANTY APPLY ONLY TO SALES MADE WHILE THIS WARRANTY IS IN EFFECT. THIS WARRANTY SHALL BE OF NO EFFECT IF AT THE TIME OF SALE A DIFFERENT WARRANTY IS POSTED ON THE COMPANY'S WEBSITE, WWW.VICON-CCTV.COM. IN THAT EVENT, THE TERMS OF THE POSTED WARRANTY SHALL APPLY EXCLUSIVELY.

Vicon Part Number: 8006-9010-03-03 Rev 807

Vicon Industries Inc.

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